ANALYTICAL TABLE

TABLE 1
UPRR 42 PAN AM X#1
GROUNDWATER SAMPLE RESULTS SUMMARY TABLE
KERR-McGEE OIL AND GAS ONSHORE LP

Sample ID	Date Sampled	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)
COGCC Table 910-1 Groundwater Standard (ug/L) (1)		**5**	**560**	**700**	**1,400**
GW01	10/1/2014	110	74.0	24.6	320

Notes:
1. Groundwater standards referenced from 2 CCR 404-1, Table 910-1, effective February 1, 2014.
COGCC = Colorado Oil and Gas Conservation Commission
ug/L = Micrograms per liter
(<) = Analytical result is less than the indicated laboratory reporting limit.
= Analytical result is in exceedance of COGCC groundwater standards.

LABORATORY ANALYTICAL REPORT

ORIGINS LABORATORY, INC

October 02, 2014

Tasman Geosciences

Christine Wasko

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - UPRR 42 Pan Am X #1 **Project Number - [none]**

Attached are your analytical results for KMG - UPRR 42 Pan Am X #1 received by Origins Laboratory, Inc. October 01, 2014. This project is associated with Origins project number X410016-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com

THE NELAC INSTITUTE

ACCREDITED
TESTING CERT # 3494.01

ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: KMG - UPRR 42 Pan Am X #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW01	X410016-01	Water	October 1, 2014 11:45	10/01/2014 17:30
N01 @ 2'	X410016-02	Soil	October 1, 2014 12:10	10/01/2014 17:30
W01 @ 2'	X410016-03	Soil	October 1, 2014 12:15	10/01/2014 17:30

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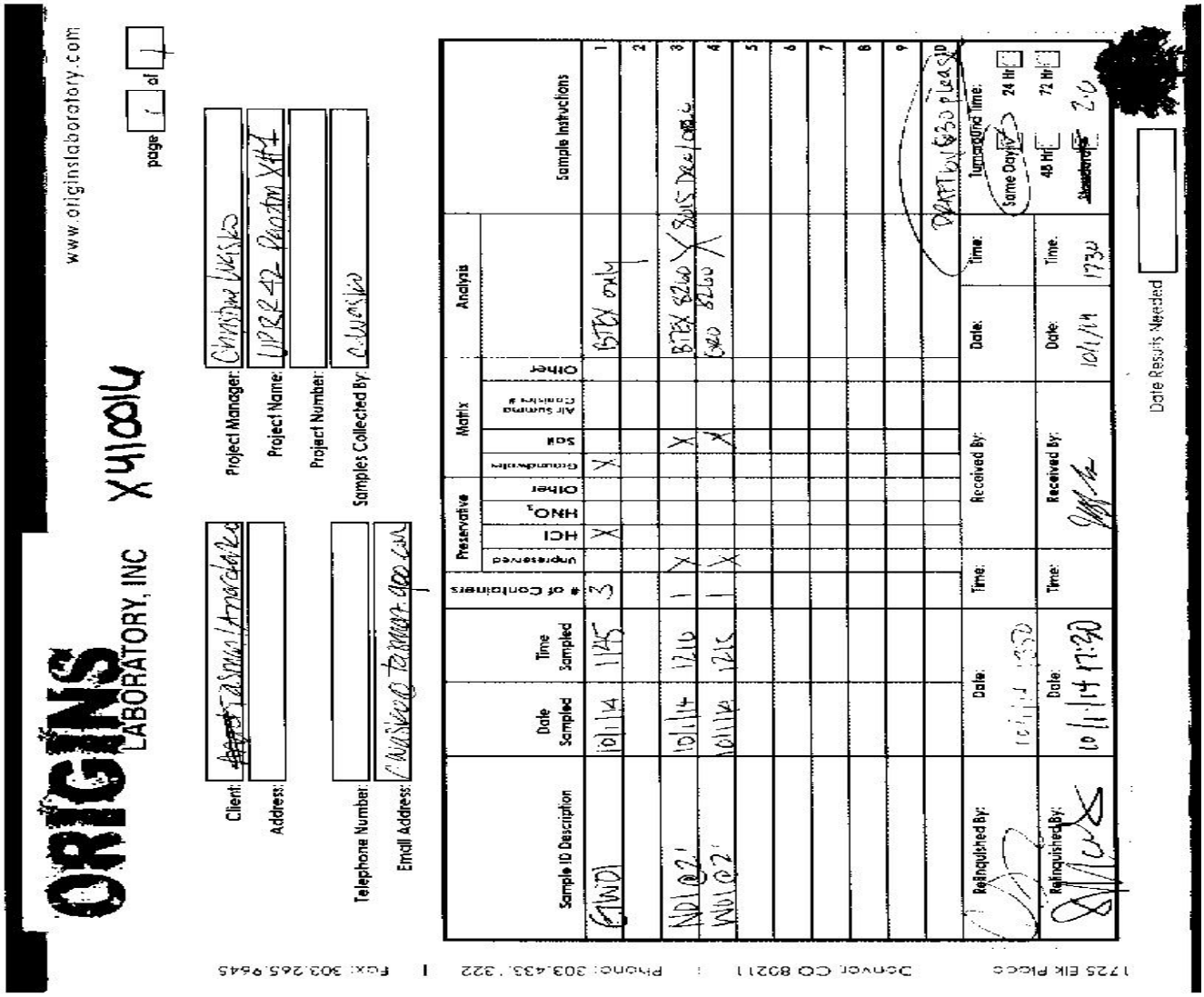
Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: KMG - UPRR 42 Pan Am X #1



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: KMG - UPRR 42 Pan Am X #1

Origins Laboratory

F-C12207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X410011

Client: Tasman

Client Project ID: UPRR 42 Pan Am X #1

Checklist Completed by: Jen Bellagini

Shipped Via: HD (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 10-1-14

Airbill #: N/A

Matrix(s) Received: (Check all that apply). X Soil/Solid X Water ____ Other: ____ (Describe)

Cooler Number/Temperature: 1 / 2.0 °C ____ / ____ °C ____ / ____ °C ____ / ____ °C

Thermometer ID: T002

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C[1]?	Y			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		Y		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact[1]?	Y			
Was adequate sample volume provided[1]?	X			
Are short holding time analytes or samples with HTs due within 48 hours present[1]?		Y		
Is a chain-of-custody (COC) present and filled out completely[1]?	Y			
Does the COC agree with the number and type of sample bottles received[1]?	Y			
Do the sample IDs on the bottle labels match the COC[1]?	X			
Is the COC properly relinquished by the client with date and time recorded[1]?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? **If yes, contact client and note in narrative.**		Y		
Are samples preserved that require preservation and was I checked[1]? *(note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / / pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)*	X			HCL

Additional Comments (if any):

[1]If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) 10/1/14 Date/Time Reviewed

Origins Laboratory, Inc.

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: KMG - UPRR 42 Pan Am X #1

GW01
10/1/2014 11:45:00AM

Origins Laboratory, Inc.
X410016-01 (Water)

BTEX by EPA 8260C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Benzene	**110**	1.0	ug/L	1	4I30014	10/01/2014	10/02/2014	
Toluene	**74.0**	1.0	"	"	"	"	"	
Ethylbenzene	**24.6**	1.0	"	"	"	"	"	
Xylenes, total	**320**	1.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*102 %*	*87.3-113*			"	"	"	
Surrogate: Toluene-d8	*101 %*	*90.9-108*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*100 %*	*88.6-111*			"	"	"	

Origins Laboratory, Inc.

Ross S Hutto For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: KMG - UPRR 42 Pan Am X #1

N01 @ 2'
10/1/2014 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.								
X410016-02 (Soil)								
DRO/RRO by EPA8015C								
Diesel (C10-C28)	ND	50	mg/kg	1	4J01012	10/01/2014	10/02/2014	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	
Surrogate: o-Terphenyl	*75.1 %*	*59-131*			"	"	"	
GBTEX by EPA 8260C								
Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	4J01011	10/01/2014	10/01/2014	
Benzene	ND	0.0020	"	"	"	"	"	
Toluene	ND	0.0020	"	"	"	"	"	
Ethylbenzene	ND	0.0020	"	"	"	"	"	
Xylenes, total	ND	0.0020	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*90.8 %*	*70-130*			"	"	"	
Surrogate: Toluene-d8	*98.6 %*	*70-130*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*105 %*	*70-130*			"	"	"	

Origins Laboratory, Inc.

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: KMG - UPRR 42 Pan Am X #1

W01 @ 2'
10/1/2014 12:15:00PM

Origins Laboratory, Inc.
X410016-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
DRO/RRO by EPA8015C								
Diesel (C10-C28)	**160**	50	mg/kg	1	4J01012	10/01/2014	10/02/2014	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	
Surrogate: o-Terphenyl	*72.4 %*	*59-131*			"	"	"	
GBTEX by EPA 8260C								
Gasoline Range Hydrocarbons	**48.2**	10.0	mg/kg	50	4J01011	10/01/2014	10/02/2014	
Benzene	ND	0.0020	"	1	"	"	"	
Toluene	ND	0.0020	"	"	"	"	"	
Ethylbenzene	**0.246**	0.100	"	50	"	"	"	
Xylenes, total	**0.468**	0.100	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*100 %*	*70-130*			"	"	"	
Surrogate: Toluene-d8	*97.1 %*	*70-130*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*106 %*	*70-130*			"	"	"	

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: KMG - UPRR 42 Pan Am X #1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4I30014 - EPA 5030B (Water)										
Blank (4I30014-BLK1)					Prepared: 09/30/2014 Analyzed: 10/01/2014					
Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	*65*		*"*	*62.5*		*105*	*87.3-113*			
Surrogate: Toluene-d8	*61*		*"*	*62.5*		*98.3*	*90.9-108*			
Surrogate: 4-Bromofluorobenzene	*64*		*"*	*62.5*		*102*	*88.6-111*			

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6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: KMG - UPRR 42 Pan Am X #1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4I30014 - EPA 5030B (Water)										
LCS (4I30014-BS1)					Prepared: 09/30/2014 Analyzed: 10/01/2014					
Benzene	43.5	1.0	ug/L	50.0		87.0	75-126			
Toluene	43.7	1.0	"	50.0		87.5	78.7-126			
Ethylbenzene	44.9	1.0	"	50.0		89.8	81-130			
m,p-Xylene	89.8	2.0	"	100		89.8	77.2-133			
o-Xylene	43.9	1.0	"	50.0		87.7	77.9-126			
Surrogate: 1,2-Dichloroethane-d4	*60*		*"*	*62.5*		*96.0*	*87.3-113*			
Surrogate: Toluene-d8	*62*		*"*	*62.5*		*98.5*	*90.9-108*			
Surrogate: 4-Bromofluorobenzene	*63*		*"*	*62.5*		*101*	*88.6-111*			

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Christine Wasko
Project Number: [none]
Project: KMG - UPRR 42 Pan Am X #1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4I30014 - EPA 5030B (Water)										
Matrix Spike (4I30014-MS1)		**Source: X409307-02**			Prepared: 09/30/2014 Analyzed: 10/01/2014					
Benzene	49.0	1.0	ug/L	50.0	ND	97.9	74-130			
Toluene	49.4	1.0	"	50.0	0.2	98.5	73-131			
Ethylbenzene	50.8	1.0	"	50.0	ND	102	76-132			
m,p-Xylene	101	2.0	"	100	ND	101	69-139			
o-Xylene	49.6	1.0	"	50.0	ND	99.2	74-131			
Surrogate: 1,2-Dichloroethane-d4	*60*		*"*	*62.5*		*96.3*	*87.3-113*			
Surrogate: Toluene-d8	*62*		*"*	*62.5*		*99.0*	*90.9-108*			
Surrogate: 4-Bromofluorobenzene	*63*		*"*	*62.5*		*101*	*88.6-111*			

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6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: KMG - UPRR 42 Pan Am X #1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4I30014 - EPA 5030B (Water)										
Matrix Spike Dup (4I30014-MSD1)		**Source: X409307-02**			Prepared: 09/30/2014 Analyzed: 10/01/2014					
Benzene	47.0	1.0	ug/L	50.0	ND	93.9	74-130	4.17	20	
Toluene	47.9	1.0	"	50.0	0.2	95.4	73-131	3.19	20	
Ethylbenzene	48.4	1.0	"	50.0	ND	96.7	76-132	4.92	20	
m,p-Xylene	95.8	2.0	"	100	ND	95.8	69-139	5.64	20	
o-Xylene	47.9	1.0	"	50.0	ND	95.7	74-131	3.53	20	
Surrogate: 1,2-Dichloroethane-d4	*60*		*"*	*62.5*		*96.4*	*87.3-113*			
Surrogate: Toluene-d8	*62*		*"*	*62.5*		*99.2*	*90.9-108*			
Surrogate: 4-Bromofluorobenzene	*63*		*"*	*62.5*		*101*	*88.6-111*			

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Project Number: [none]
Project: KMG - UPRR 42 Pan Am X #1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4J01011 - EPA 5030 (soil)										
Blank (4J01011-BLK1)					Prepared: 10/01/2014 Analyzed: 10/01/2014					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							
Benzene	ND	0.0020	"							
Toluene	ND	0.0020	"							
Ethylbenzene	ND	0.0020	"							
Xylenes, total	ND	0.0020	"							
Surrogate: 1,2-Dichloroethane-d4	*65.8*		*ug/kg*	*62.5*		*105*	*70-130*			
Surrogate: Toluene-d8	*62.1*		*"*	*62.5*		*99.3*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*62.7*		*"*	*62.5*		*100*	*70-130*			

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: KMG - UPRR 42 Pan Am X #1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4J01011 - EPA 5030 (soil)										
LCS (4J01011-BS1)					Prepared: 10/01/2014 Analyzed: 10/01/2014					
Benzene	0.105	0.0020	mg/kg	0.100		105	77.1-124			
Toluene	0.0947	0.0020	"	0.100		94.7	74.5-128			
Ethylbenzene	0.0969	0.0020	"	0.100		96.9	66.4-127			
m,p-Xylene	0.193	0.0040	"	0.200		96.5	76.6-124			
o-Xylene	0.102	0.0020	"	0.100		102	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	*65.6*		*ug/kg*	*62.5*		*105*	*70-130*			
Surrogate: Toluene-d8	*61.1*		*"*	*62.5*		*97.8*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*60.3*		*"*	*62.5*		*96.5*	*70-130*			

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Christine Wasko
Project Number: [none]
Project: KMG - UPRR 42 Pan Am X #1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4J01011 - EPA 5030 (soil)										
Matrix Spike (4J01011-MS1)		**Source: X409335-05**			Prepared: 10/01/2014 Analyzed: 10/01/2014					**QM-07**
Benzene	0.124	0.0020	mg/kg	0.100	0.0733	50.7	71.8-126			
Toluene	0.278	0.0020	"	0.100	0.278	0.440	65.1-130			
Ethylbenzene	ND	0.0020	"	0.100	ND		62.2-130			
m,p-Xylene	ND	0.0040	"	0.200	ND		46.5-137			
o-Xylene	ND	0.0020	"	0.100	ND		54.2-134			
Surrogate: 1,2-Dichloroethane-d4	*52.4*		*ug/kg*	*62.5*		*83.9*	*70-130*			
Surrogate: Toluene-d8	*63.1*		*"*	*62.5*		*101*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*64.8*		*"*	*62.5*		*104*	*70-130*			

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ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: KMG - UPRR 42 Pan Am X #1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4J01011 - EPA 5030 (soil)										
Matrix Spike Dup (4J01011-MSD1)		**Source: X409335-05**			Prepared: 10/01/2014 Analyzed: 10/01/2014					**QM-07**
Benzene	0.143	0.0020	mg/kg	0.100	0.0733	70.2	71.8-126	14.5	11.3	
Toluene	0.268	0.0020	"	0.100	0.278	NR	65.1-130	3.66	15.4	
Ethylbenzene	ND	0.0020	"	0.100	ND		62.2-130		19.6	
m,p-Xylene	ND	0.0040	"	0.200	ND		46.5-137		19.2	
o-Xylene	ND	0.0020	"	0.100	ND		54.2-134		17.9	
Surrogate: 1,2-Dichloroethane-d4	*56.4*		*ug/kg*	*62.5*		*90.2*	*70-130*			
Surrogate: Toluene-d8	*63.7*		*"*	*62.5*		*102*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*48.2*		*"*	*62.5*		*77.1*	*70-130*			

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Ross S Hutto For Noelle Doyle Mathis, President

ORIGINS LABORATORY, INC

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Christine Wasko
Project Number: [none]
Project: KMG - UPRR 42 Pan Am X #1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Extractable Petroleum Hydrocarbons by 8015M - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4J01012 - EPA 3580										
Blank (4J01012-BLK1)					Prepared: 10/01/2014 Analyzed: 10/01/2014					
Diesel (C10-C28)	ND	50	mg/kg							
Residual Range Organics (C28-C36)	ND	200	"							
Surrogate: o-Terphenyl	*52*		*g*	*50.0*		*104*	*59-131*			
LCS (4J01012-BS1)					Prepared: 10/01/2014 Analyzed: 10/01/2014					
Diesel (C10-C28)	1100	50	mg/kg	1000		110	64-121			
Residual Range Organics (C28-C36)	1100	200	"	1000		110	58-124			
Surrogate: o-Terphenyl	*56*		*g*	*50.0*		*111*	*59-131*			
LCS Dup (4J01012-BSD1)					Prepared: 10/01/2014 Analyzed: 10/01/2014					
Diesel (C10-C28)	990	50	mg/kg	1000		99.4	64-121	10.3	20	
Residual Range Organics (C28-C36)	1000	200	"	1000		99.7	58-124	9.70	20	
Surrogate: o-Terphenyl	*51*		*g*	*50.0*		*102*	*59-131*			

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ross S Hutto For Noelle Doyle Mathis, President

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Denver CO 80211

Christine Wasko
Project Number: [none]
Project: KMG - UPRR 42 Pan Am X #1

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference

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